

1 We claim:

- 2
- 3 1. A method for producing thermoplastic film by the technique in which a melt
- 4 curtain is extruded from a slot die onto a chilled casting roll, the
- 5 improvement comprising discharging a diffuse stream of cooling air onto a
- 6 substantial portion of the surface of a thermoplastic web on a cooled
- 7 casting roll and deflecting said diffuse stream of cooling air by discharging
- 8 a linear source of pressurized air towards said diffuse stream, whereby said
- 9 linear source of pressurized air discharge diverts said diffuse air discharge
- 10 from said thermoplastic web after said web is discharged from said slot die
- 11 but prior to the time at which said web strikes said chilled casting roll.
- 12 2. A cooling device according to claim 1 wherein said air discharged from
- 13 said linear source is directed towards the web at an angle of
- 14 approximately 30 degrees from the tangent to the cooling roll at the point
- 15 at which said air discharged from said linear source strikes said cooling
- 16 roll.
- 17 3. An improved cooling device according to claim 2 wherein said diffuse
- 18 stream of cooling air is cooled to a temperature below ambient
- 19 temperature.
- 20
- 21
- 22
- 23
- 24
- 25